

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for producing a protected stream of compressed video content, said method comprising:
 - receiving an input stream of compressed video content containing a sequence of frames;
 - generating a frame encryption key and including the encryption key in a table of encryption keys;
 - creating a set of encrypted frames by encrypting at least selected portions of selected frames of said sequence of frames using the frame encryption keys in accordance with a frame encryption function;
 - generating frame decryption information necessary to decrypt said set of encrypted frames; and
 - assembling said protected stream using at least said set of encrypted frames, unencrypted frames of said sequence of frames, and said frame decryption information;
 - wherein said frame decryption information is synchronized with said set of encrypted frames.
2. (Currently Amended) The method of claim 1, wherein said frame decryption information includes references to frame encryption keys in the key tables~~said assembling further includes using unencrypted frames of said sequence of frames, said frame decryption information being synchronized with said set of encrypted frames.~~

3. (Currently Amended) The method of claim [[2]]1, wherein said frame decryption information includes encryption status information corresponding to each frame of said protected stream.

4. (Currently Amended) The method of claim [[2]]1, wherein said frame decryption information includes a reference to a decryption key in the key table~~information corresponding to encrypted frames within said protected stream~~.

5. (Currently Amended) The method of claim [[2]]1, wherein said frame decryption information includes intra-frame encryption offset information corresponding to each encrypted frame of said protected stream.

6. (Currently Amended) The method of claim [[2]]1, wherein said frame decryption information includes information identifying a data field size to be decrypted with respect to each encrypted frame of said protected stream.

7. (Original) The method of claim 1 further including encrypting a first consecutive number of said selected frames using a first frame encryption key and encrypting a second consecutive number of said selected frames using a second frame encryption key.

8. (Cancelled)

9. (Original) The method of claim 5 further including parsing said input stream in order to determine frame boundaries and frame types associated with frames of said sequence of frames.

10. (Original) The method of claim 9 further including maintaining counts corresponding to each of said frame types, said counts and said boundaries being used to determine said intra-frame encryption offset information.

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11. (Currently Amended) The method of claim 9 further including maintaining counts corresponding to each of said frame types, said counts being used to determine when to generate use a new frame encryption key[[s]]—used in said [[of]] encrypting of said selected frames.

12. (Original) The method of claim 10 wherein said parsing further includes determining sizes of said frames of said sequence of frames, said sizes also being used in determining said intra-frame offset information.

13. (Original) The method of claim 1 further including determining a number of bytes to be encrypted within each of said selected frames based upon a level of available processing power and a desired degradation of visual quality.

14. (Currently Amended) A method for decrypting compressed video content comprising:

storing frame decryption keys;

receiving an input stream of compressed video content containing encrypted frames and unencrypted frames;

receiving frame decryption information necessary to decrypt said encrypted frames, said frame decryption information is synchronized with said set of encrypted frames and distinguishes said encrypted frames from said unencrypted frames; and

decrypting selected portions of said encrypted frames using a frame decryption function in accordance with said frame decryption information, which identifies the specific portions of the frames to be decrypted and the applicable frame decryption keys.

15. (Original) The method of claim 14 wherein said input stream and said frame decryption information collectively comprise a protected video stream, said frame

decryption information being synchronized with said encrypted frames within said input stream.

16. (Original) The method of claim 14 wherein said frame decryption information includes encryption status information corresponding to each of said encrypted frames.

17. (Currently Amended) The method of claim 14 wherein said frame decryption information includes a reference to a frame decryption key~~decryption key information corresponding to~~for each of said encrypted frames.

18. (Original) The method of claim 14 wherein said frame decryption information includes intra-frame encryption offset information corresponding to each of said encrypted frames.

19. (Original) The method of claim 14 wherein said frame decryption information includes size information identifying a data field size to be decrypted with respect to each of said encrypted frames.

20. (Original) The method of claim 14 wherein said decrypting includes decrypting a first consecutive number of said encrypted frames using a first frame decryption key and decrypting a second consecutive number of said encrypted frames using a second frame decryption key.

21. (Currently Amended) An encrypting digital video encoder comprising:
a video processing unit for generating a plurality of input data streams in response to a sequence of uncompressed video frames;
an entropy compression unit for creating, based upon said plurality of input data streams, compressed video content containing a sequence of compressed frames; and

a video encryption module configured to transform said sequence of compressed frames into a protected video stream containing at least a set of encrypted frames and synchronized frame decryption information necessary to decrypt said set of encrypted frames;

wherein the video encryption module also generates a table of encryption keys;

wherein said frame decryption information includes references to encryption keys in the table of encryption keys.

22. (Original) The encoder of claim 21 wherein said protected video stream is comprised of an encrypted video stream including said set of encrypted frames and unencrypted ones of said compressed frames, said frame decryption information being synchronized with said encrypted video stream.

23. (Original) The encoder of claim 22 wherein said frame decryption information includes encryption status information corresponding to each frame of said encrypted video stream.

24. (Currently Amended) The encoder of claim 22 wherein said frame decryption information also includes ~~decryption key~~ information, intra-frame encryption offset information, and data field size decryption information corresponding to each frame of said encrypted video stream.

25. (Original) The encoder of claim 21 wherein said video encryption module is operative to parse said sequence of frames in order to determine frame boundaries and frame types associated with individual frames of said sequence of frames.

26. (Original) The encoder of claim 25 wherein said video encryption module is operative to maintain counts corresponding to each of said frame types, said counts and said boundaries being used to determine intra-frame encryption offset information.

27. (Original) The encoder of claim 25 wherein said video encryption module is operative to maintain counts corresponding to each of said frame types, said counts being used to determine when to create new encryption keys used in generating ones of said encrypted frames.

28. (Currently Amended) A[[n]] decrypting digital video decoder comprising:
a video decryption module configured to receive a protected input stream of compressed video content containing at least a set of encrypted frames and synchronized frame decryption information, said frame decryption information being necessary for decrypting said set of encrypted frames so as to form a set of decrypted frames;
an entropy decompression unit for creating, based at least in part upon said set of decrypted frames, a plurality of video data streams; and
a video processing unit for generating an output stream of uncompressed video content in response to said plurality of video data streams;
wherein said frame decryption information includes references to applicable encryption keys.

29. (Original) The decoder of claim 28 wherein said protected input stream is comprised of an encrypted video stream including said set of encrypted frames and unencrypted frames, said frame decryption information being synchronized with said encrypted video stream.

30. (Original) The decoder of claim 29 wherein said frame decryption information includes encryption status information corresponding to each frame of said encrypted video stream.

31. (Currently Amended) The decoder of claim 29 wherein said frame decryption information also includes ~~decryption key information~~, intra-frame encryption

offset information, and data field size decryption information corresponding to each frame of said encrypted video stream.

32. (New) The method of claim 1, further comprising:
 - receiving an input stream of video content containing a sequence of frames; and
 - generating the input stream of compressed video content by applying processing techniques in accordance with an applicable encoding standard to produce a plurality of video information streams;
 - wherein the encrypting of selected frames includes encrypting a portion of a predetermined video information stream.

33. (New) The encrypting digital video encoder of claim 21, wherein the entropy compression unit is configured to encrypt a predetermined one of said video information streams.